

What is claimed is:

1. A single-piece type intraocular lens obtained by shape processing a material formed by integrally molding an optic portion forming material and a support portion forming material, comprising a stepped part provided in a boundary between the optic portion and the support portion of the posterior of the optic portion so as to be arranged in such a way that the surface of a part shifting to a region of the support portion from the region of the optic portion suddenly shifts in a direction of the anterior of the optic portion.

2. The single-piece type intraocular lens according to claim 1, wherein the stepped part has an edge part which is formed in a part of the optic portion side of the boundary part shifting to the support portion from the optic portion, having a stepped face connecting from the edge part to the support portion serving as a wall face nearly in parallel to the optical axis of the optic portion.

3. The single-piece type intraocular lens according to claim 2, wherein the surface of the posterior of the optic portion near the edge part is formed in a surface substantially orthogonal to the optical axis.

4. The single-piece type intraocular lens according to claim 2, wherein the surface of the posterior of the optic portion

near the edge part is formed so as to rise toward the edge part in a posterior direction.

5. The single-piece type intraocular lens according to claim 2, wherein a part of the stepped face closer to the support portions is formed into an acute angle so as to be inclined in a direction of the optical axis closely to the center of the optical axis.

6. The single-piece type intraocular lens according to claim 2, wherein a part of the stepped face closer to the support portions is formed into an obtuse angle so as to be slightly inclined in a direction of the optical axis in a direction opposite to the center of the optical axis.

7. The single-piece type intraocular lens according to claim 2, wherein R (curved surface) is formed in a part of the stepped face closer to the support portions.

8. The single-piece type intraocular lens according to claim 2, wherein the stepped face is formed into a concavo-convex face.

9. The single-piece type intraocular lens according to any one of the claims 1 to 7, wherein the stepped part has a

step difference with height of 0.05mm or more.

10. The single-piece type intraocular lens according to any one of the claims 1 to 9, wherein an edge part located in a region of the optic portion of the stepped part is formed of a soft material.

11. The single-piece type intraocular lens according to any one of the claims 1 to 10, wherein the optic portion is made of a soft material, and the support portion is made of a hard material.

12. The single-piece type intraocular lens according to claim 11, wherein the soft material is a soft acrylic material, and the hard material is PMMA.

13. The single-piece type intraocular lens according to any one of the claims 1 to 12, wherein the optical surface of the posterior of the optic portion is formed into a concave shape.

14. A manufacturing method of the single-piece type intraocular lens for manufacturing the single-piece type intraocular lens according to any one of the claims 1 to 13, comprising:

preparing a raw material formed by integrally molding the optic portion forming material and the support portion

forming material;

cutting the raw material, thereby forming a curved surface shape of the optical surfaces of both sides of the anterior and the posterior of the optic portion, and a front surface shape of the support portion located on both sides of the anterior and the posterior of the optic portion;

next, grooving a part where the stepped part is estimated to be formed, thereby forming a surface serving as a stepped face; and

next, forming by cutting a contour shape excepting the anterior and posterior of the optic portion, and the contour shape excepting the surface shape located on both sides of the anterior and posterior of the optic portion of the support portion.